



Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Date of Report: 04/28/2017

Victorio Tostado

City of Patterson

P.O. Box 667

Patterson, CA 95363

Client Project: Solids Cleanup

BCL Project: Biosolids

BCL Work Order: 1710067

Invoice ID: B266209

Enclosed are the results of analyses for samples received by the laboratory on 4/13/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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BC LABORATORIES INC. COOLER RECEIPT FORM

Submission #: 17-10067

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO
 W / S _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: _____ Container: Plastic bag Thermometer ID: _____ Date/Time: 4/13/2140
 Temperature: (A) Room °C / (C) Temp °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG	A	A	A	A	A	A	A			
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____ Date/Time: 4-14-17 1328 Rev 21 05/23/2016
 Sample Numbering Completed By: JM (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20)
 A = Actual / C = Corrected

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~~13-10784~~ 11419

17-10067

City of Patterson
WQCF
Date: 4/13/17

-1 **Discrete 1:**
Land Use Annual Biosolids
Coliform - LTB Series (35 tube)
Discrete 1 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

+2 **Discrete 2:**
Coliform - LTB Series (35 tube)
Discrete 2 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

-3 **Discrete 3:**
Coliform - LTB Series (35 tube)
Discrete 3 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

-4 **Discrete 4:**
Coliform - LTB Series (35 tube),
Discrete 4 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

-5 **Discrete 5:**
Coliform - LTB Series (35 tube)
Discrete 5 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

-6 **Discrete 6:**
Coliform - LTB Series (35 tube)
Discrete 6 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

-7 **Discrete 7:**
Coliform - LTB Series (35 tube)
Discrete 7 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

Composite Sample of 1-7
Wet chemistry - NH3-N, Conductivity, No3-N, N-organic, Total-N, TKN, pH, TDS and % solids

Composite sample of 1-7
Metals, Total-AS, Cd, Cr, Cu, pb, Hg, Mo, Ni, P, K, Se, and Zn (please report dry wet)

Composite sample of 1-7
Sub-organic - EPA 8081

Composite sample of 1-7
Sub-organic - EPA 8082

Composite sample of 1-7
EPA 8270
(8oz glass jar)

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
--	---

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	Sampling Date:	Sample Depth:	Lab Matrix:	Sample Type:
1710067-01	COC Number: ---	---	04/13/2017 21:40	04/13/2017 00:00	---	Solids	Other
	Project Number: ---	---					
	Sampling Location: ---	---					
	Sampling Point: Descrete 1						
	Sampled By: Jose C.						
1710067-02	COC Number: ---	---	04/13/2017 21:40	04/13/2017 00:00	---	Solids	Other
	Project Number: ---	---					
	Sampling Location: ---	---					
	Sampling Point: Descrete 2						
	Sampled By: Jose C.						
1710067-03	COC Number: ---	---	04/13/2017 21:40	04/13/2017 00:00	---	Solids	Other
	Project Number: ---	---					
	Sampling Location: ---	---					
	Sampling Point: Descrete 3						
	Sampled By: Jose C.						
1710067-04	COC Number: ---	---	04/13/2017 21:40	04/13/2017 00:00	---	Solids	Other
	Project Number: ---	---					
	Sampling Location: ---	---					
	Sampling Point: Descrete 4						
	Sampled By: Jose C.						
1710067-05	COC Number: ---	---	04/13/2017 21:40	04/13/2017 00:00	---	Solids	Other
	Project Number: ---	---					
	Sampling Location: ---	---					
	Sampling Point: Descrete 5						
	Sampled By: Jose C.						
1710067-06	COC Number: ---	---	04/13/2017 21:40	04/13/2017 00:00	---	Solids	Other
	Project Number: ---	---					
	Sampling Location: ---	---					
	Sampling Point: Descrete 6						
	Sampled By: Jose C.						
1710067-07	COC Number: ---	---	04/13/2017 21:40	04/13/2017 00:00	---	Solids	Other
	Project Number: ---	---					
	Sampling Location: ---	---					
	Sampling Point: Descrete 7						
	Sampled By: Jose C.						

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Patterson, CA 95363

Reported: 04/28/2017 16:15
Project: Biosolids
Project Number: Solids Cleanup
Project Manager: Victorio Tostado

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1710067-08	COC Number:	---	Receive Date:	04/13/2017 21:40
	Project Number:	---	Sampling Date:	04/13/2017 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Composite Sample of 1-7	Lab Matrix:	Solids
	Sampled By:	Jose C.	Sample Type:	Other



City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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1710067-01

Bacteriological Analysis

COC Number: ---	District ID:
Project Number: ---	System Number:
Sampling Location: ---	Station Number:
Sampling Point: Descrete 1	Sample Site:
Sampled By: Jose C.	Residual Chlorine, ppm:
Receive Date: 04/13/2017 21:40	Temperature, C:
Sampling Date: 04/13/2017 00:00	
Sample Depth: ---	
Sample Matrix: Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.10	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Amount	0.010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Amount	0.0010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Amount	0.00010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Tubes	0/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Density	2.8x10^5	MPN/gm	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Amount	0.10	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Amount	0.010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Amount	0.0010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Amount	0.00010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Tubes	0/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Density	2.8x10^5	MPN/gm	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	

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1710067-02 **Bacteriological Analysis**

COC Number: ---	District ID:
Project Number: ---	System Number:
Sampling Location: ---	Station Number:
Sampling Point: Descrete 2	Sample Site:
Sampled By: Jose C.	Residual Chlorine, ppm:
Receive Date: 04/13/2017 21:40	Temperature, C:
Sampling Date: 04/13/2017 00:00	
Sample Depth: ---	
Sample Matrix: Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.10	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Amount	0.010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Amount	0.0010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Amount	0.00010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Tubes	2/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Density	6.3x10^5	MPN/gm	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Amount	0.10	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Amount	0.010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Amount	0.0010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Amount	0.00010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Tubes	1/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Density	4.1x10^5	MPN/gm	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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1710067-03

Bacteriological Analysis

COC Number: ---	District ID:
Project Number: ---	System Number:
Sampling Location: ---	Station Number:
Sampling Point: Descrete 3	Sample Site:
Sampled By: Jose C.	Residual Chlorine, ppm:
Receive Date: 04/13/2017 21:40	Temperature, C:
Sampling Date: 04/13/2017 00:00	
Sample Depth: ---	
Sample Matrix: Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.10	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Amount	0.010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Amount	0.0010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Amount	0.00010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Tubes	3/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Density	1.1x10^6	MPN/gm	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Amount	0.10	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Amount	0.010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Amount	0.0010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Amount	0.00010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Tubes	2/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Density	6.5x10^5	MPN/gm	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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1710067-04

Bacteriological Analysis

COC Number: ---	District ID:
Project Number: ---	System Number:
Sampling Location: ---	Station Number:
Sampling Point: Descrete 4	Sample Site:
Sampled By: Jose C.	Residual Chlorine, ppm:
Receive Date: 04/13/2017 21:40	Temperature, C:
Sampling Date: 04/13/2017 00:00	
Sample Depth: ---	
Sample Matrix: Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.10	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Amount	0.010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Amount	0.0010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Amount	0.00010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Tubes	0/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Density	2.9x10^5	MPN/gm	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Amount	0.10	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Amount	0.010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Amount	0.0010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Amount	0.00010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Tubes	0/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Density	2.9x10^5	MPN/gm	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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1710067-05

Bacteriological Analysis

COC Number: ---	District ID:
Project Number: ---	System Number:
Sampling Location: ---	Station Number:
Sampling Point: Descrete 5	Sample Site:
Sampled By: Jose C.	Residual Chlorine, ppm:
Receive Date: 04/13/2017 21:40	Temperature, C:
Sampling Date: 04/13/2017 00:00	
Sample Depth: ---	
Sample Matrix: Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.10	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Amount	0.010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Amount	0.0010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Amount	0.00010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Tubes	0/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Density	2.8x10^6	MPN/gm	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Amount	0.10	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Amount	0.010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Amount	0.0010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Amount	0.00010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Tubes	1/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Density	4.1x10^5	MPN/gm	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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1710067-06 **Bacteriological Analysis**

COC Number: ---	District ID:
Project Number: ---	System Number:
Sampling Location: ---	Station Number:
Sampling Point: Descrete 6	Sample Site:
Sampled By: Jose C.	Residual Chlorine, ppm:
Receive Date: 04/13/2017 21:40	Temperature, C:
Sampling Date: 04/13/2017 00:00	
Sample Depth: ---	
Sample Matrix: Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.10	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Amount	0.010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Amount	0.0010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Amount	0.00010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Tubes	4/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Density	1.9x10 ⁶	MPN/gm	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Amount	0.10	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Amount	0.010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Amount	0.0010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Amount	0.00010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Tubes	2/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Density	6.3x10 ⁵	MPN/gm	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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1710067-07 **Bacteriological Analysis**

COC Number: ---	District ID:
Project Number: ---	System Number:
Sampling Location: ---	Station Number:
Sampling Point: Descrete 7	Sample Site:
Sampled By: Jose C.	Residual Chlorine, ppm:
Receive Date: 04/13/2017 21:40	Temperature, C:
Sampling Date: 04/13/2017 00:00	
Sample Depth: ---	
Sample Matrix: Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.10	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Amount	0.010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Amount	0.0010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Amount	0.00010	mL	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Dilution4 Tubes	1/5	Positive Tubes	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Total Coliform, Density	4.2x10 ⁵	MPN/gm	SM-9221B	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Amount	0.10	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Amount	0.010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Amount	0.0010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Amount	0.00010	mL	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Dilution4 Tubes	0/5	Positive Tubes	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	
Fecal Coliform, Density	2.9x10 ⁵	MPN/gm	SM-9221E	FBV	1	04/14/2017 15:00	04/16/2017	

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Chemical Analysis

BCL Sample ID: 1710067-01	Client Sample Name: Discrete 1, 4/13/2017 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #
Solids		86.7	%	PQL 0.05	MDL 0.05	SM-2540G			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/20/17	04/20/17 08:00	DRC	MANUAL	1	B[D2116

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Chemical Analysis

BCL Sample ID: 1710067-02	Client Sample Name: Discrete 2, 4/13/2017 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #
Solids		85.1	%	PQL 0.05	MDL 0.05	SM-2540G			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/20/17	04/20/17 08:00	DRC	MANUAL	1	B[D2116

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Chemical Analysis

BCL Sample ID: 1710067-03	Client Sample Name: Discrete 3, 4/13/2017 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #
Solids		82.6	%	PQL 0.05	MDL 0.05	SM-2540G			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/20/17	04/20/17 08:00	DRC	MANUAL	1	B[D2116

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Chemical Analysis

BCL Sample ID: 1710067-04	Client Sample Name: Discrete 4, 4/13/2017 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #
Solids		83.8	%	PQL 0.05	MDL 0.05	SM-2540G			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/20/17	04/20/17 08:00	DRC	MANUAL	1	B[D2116

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Chemical Analysis

BCL Sample ID: 1710067-05	Client Sample Name: Discrete 5, 4/13/2017 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #
Solids		84.4	%	PQL 0.05	MDL 0.05	SM-2540G			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/20/17	04/20/17 08:00	DRC	MANUAL	1	B[D2116

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Chemical Analysis

BCL Sample ID: 1710067-06	Client Sample Name: Discrete 6, 4/13/2017 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #
Solids		85.3	%	PQL 0.05	MDL 0.05	SM-2540G			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/20/17	04/20/17 08:00	DRC	MANUAL	1	B[D2116

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Chemical Analysis

BCL Sample ID: 1710067-07	Client Sample Name: Discrete 7, 4/13/2017 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #
Solids		83.2	%	PQL 0.05	MDL 0.05	SM-2540G			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/20/17	04/20/17 08:00	DRC	MANUAL	1	B[D2116

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Organochlorine Pesticides and PCB's (EPA Method 8080)

BCL Sample ID:	1710067-08	Client Sample Name:	Composite Sample of 1-7, 4/13/2017 12:00:00AM, Jose C.							
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #	
				PQL	MDL					
Aldrin	ND	ND	mg/kg	0.0059	0.00065	EPA-8080	ND	A10	1	
Dieldrin	ND	ND	mg/kg	0.0059	0.00082	EPA-8080	ND	A10	1	
PCB-1016	ND	ND	mg/kg	0.12	0.046	EPA-8080	ND	A10	1	
PCB-1221	ND	ND	mg/kg	0.12	0.085	EPA-8080	ND	A10	1	
PCB-1232	ND	ND	mg/kg	0.12	0.087	EPA-8080	ND	A10	1	
PCB-1242	ND	ND	mg/kg	0.12	0.049	EPA-8080	ND	A10	1	
PCB-1248	ND	ND	mg/kg	0.12	0.082	EPA-8080	ND	A10	1	
PCB-1254	ND	ND	mg/kg	0.12	0.038	EPA-8080	ND	A10	1	
PCB-1260	ND	ND	mg/kg	0.12	0.034	EPA-8080	ND	A10	1	
PCB-1262	ND	ND	mg/kg	0.12	0.087	EPA-8080	ND	A10	1	
PCB-1268	ND	ND	mg/kg	0.12	0.048	EPA-8080	ND	A10	1	
Total PCB's (Summation)	ND	ND	mg/kg	0.12	0.059	EPA-8080	ND	A10	1	
TCMX (Surrogate)	84.8	84.8	%	20 - 130 (LCL - UCL)		EPA-8080		A10	1	
Decachlorobiphenyl (Surrogate)	149	149	%	40 - 130 (LCL - UCL)		EPA-8080		A10,S09	1	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8080	04/19/17	04/20/17 11:18	HKS	GC-17	11.765	B[D]2037

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/28/2017 16:15
Project: Biosolids
Project Number: Solids Cleanup
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1710067-08		Client Sample Name: Composite Sample of 1-7, 4/13/2017 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #	
				PQL	MDL					
Acenaphthene	ND	ND	mg/kg	2.0	0.18	EPA-8270C	ND	A01	1	
Acenaphthylene	ND	ND	mg/kg	2.0	0.36	EPA-8270C	ND	A01	1	
Aldrin	ND	ND	mg/kg	2.0	0.32	EPA-8270C	ND	A01	1	
Aniline	ND	ND	mg/kg	4.0	0.32	EPA-8270C	ND	A01	1	
Anthracene	ND	ND	mg/kg	2.0	1.0	EPA-8270C	ND	A01	1	
Benzidine	ND	ND	mg/kg	60	1.2	EPA-8270C	ND	A01	1	
Benzo[a]anthracene	ND	ND	mg/kg	2.0	0.82	EPA-8270C	ND	A01	1	
Benzo[b]fluoranthene	ND	ND	mg/kg	2.0	0.19	EPA-8270C	ND	A01	1	
Benzo[k]fluoranthene	ND	ND	mg/kg	2.0	0.34	EPA-8270C	ND	A01	1	
Benzo[a]pyrene	ND	ND	mg/kg	2.0	0.52	EPA-8270C	ND	A01	1	
Benzo[g,h,i]perylene	ND	ND	mg/kg	2.0	0.22	EPA-8270C	ND	A01	1	
Benzoic acid	ND	ND	mg/kg	10	1.1	EPA-8270C	ND	A01	1	
Benzyl alcohol	ND	ND	mg/kg	2.0	0.15	EPA-8270C	ND	A01	1	
Benzyl butyl phthalate	ND	ND	mg/kg	2.0	0.66	EPA-8270C	ND	A01	1	
alpha-BHC	ND	ND	mg/kg	2.0	0.70	EPA-8270C	ND	A01	1	
beta-BHC	ND	ND	mg/kg	2.0	0.80	EPA-8270C	ND	A01	1	
delta-BHC	ND	ND	mg/kg	2.0	0.36	EPA-8270C	ND	A01	1	
gamma-BHC (Lindane)	ND	ND	mg/kg	2.0	0.50	EPA-8270C	ND	A01	1	
bis(2-Chloroethoxy)methane	ND	ND	mg/kg	2.0	0.90	EPA-8270C	ND	A01	1	
bis(2-Chloroethyl) ether	ND	ND	mg/kg	2.0	0.52	EPA-8270C	ND	A01	1	
bis(2-Chloroisopropyl)ether	ND	ND	mg/kg	2.0	0.30	EPA-8270C	ND	A01	1	
bis(2-Ethylhexyl)phthalate	ND	ND	mg/kg	4.0	0.64	EPA-8270C	ND	A01	1	
4-Bromophenyl phenyl ether	ND	ND	mg/kg	2.0	0.52	EPA-8270C	ND	A01	1	
4-Chloroaniline	ND	ND	mg/kg	2.0	0.30	EPA-8270C	ND	A01	1	
2-Chloronaphthalene	ND	ND	mg/kg	2.0	0.24	EPA-8270C	ND	A01	1	
4-Chlorophenyl phenyl ether	ND	ND	mg/kg	2.0	0.22	EPA-8270C	ND	A01	1	
Chrysene	ND	ND	mg/kg	2.0	0.32	EPA-8270C	ND	A01	1	
4,4'-DDD	ND	ND	mg/kg	2.0	0.64	EPA-8270C	ND	A01	1	
4,4'-DDE	ND	ND	mg/kg	2.0	0.66	EPA-8270C	ND	A01	1	
4,4'-DDT	ND	ND	mg/kg	2.0	1.0	EPA-8270C	ND	A01	1	
Dibenzo[a,h]anthracene	ND	ND	mg/kg	2.0	0.38	EPA-8270C	ND	A01	1	
Dibenzofuran	ND	ND	mg/kg	2.0	0.26	EPA-8270C	ND	A01	1	

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Patterson, CA 95363

Reported: 04/28/2017 16:15
Project: Biosolids
Project Number: Solids Cleanup
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	1710067-08	Client Sample Name:	Composite Sample of 1-7, 4/13/2017 12:00:00AM, Jose C.							
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #	
1,2-Dichlorobenzene	ND	ND	mg/kg	2.0	0.17	EPA-8270C	ND	A01	1	
1,3-Dichlorobenzene	ND	ND	mg/kg	2.0	0.24	EPA-8270C	ND	A01	1	
1,4-Dichlorobenzene	ND	ND	mg/kg	2.0	0.36	EPA-8270C	ND	A01	1	
3,3-Dichlorobenzidine	ND	ND	mg/kg	4.0	0.48	EPA-8270C	ND	A01	1	
Dieldrin	ND	ND	mg/kg	2.0	0.62	EPA-8270C	ND	A01	1	
Diethyl phthalate	ND	ND	mg/kg	2.0	0.15	EPA-8270C	ND	A01	1	
Dimethyl phthalate	ND	ND	mg/kg	2.0	0.18	EPA-8270C	ND	A01	1	
Di-n-butyl phthalate	ND	ND	mg/kg	2.0	0.38	EPA-8270C	ND	A01	1	
2,4-Dinitrotoluene	ND	ND	mg/kg	2.0	0.60	EPA-8270C	ND	A01	1	
2,6-Dinitrotoluene	ND	ND	mg/kg	2.0	0.32	EPA-8270C	ND	A01	1	
Di-n-octyl phthalate	ND	ND	mg/kg	2.0	0.26	EPA-8270C	ND	A01	1	
1,2-Diphenylhydrazine	ND	ND	mg/kg	2.0	0.32	EPA-8270C	ND	A01	1	
Endosulfan I	ND	ND	mg/kg	4.0	1.2	EPA-8270C	ND	A01	1	
Endosulfan II	ND	ND	mg/kg	4.0	1.2	EPA-8270C	ND	A01	1	
Endosulfan sulfate	ND	ND	mg/kg	2.0	1.1	EPA-8270C	ND	A01	1	
Endrin	ND	ND	mg/kg	4.0	1.1	EPA-8270C	ND	A01	1	
Endrin aldehyde	ND	ND	mg/kg	10	0.88	EPA-8270C	ND	A01	1	
Fluoranthene	ND	ND	mg/kg	2.0	0.22	EPA-8270C	ND	A01	1	
Fluorene	ND	ND	mg/kg	2.0	0.26	EPA-8270C	ND	A01	1	
Heptachlor	ND	ND	mg/kg	2.0	0.48	EPA-8270C	ND	A01	1	
Heptachlor epoxide	ND	ND	mg/kg	2.0	1.3	EPA-8270C	ND	A01	1	
Hexachlorobenzene	ND	ND	mg/kg	2.0	0.24	EPA-8270C	ND	A01	1	
Hexachlorobutadiene	ND	ND	mg/kg	2.0	0.40	EPA-8270C	ND	A01	1	
Hexachlorocyclopentadiene	ND	ND	mg/kg	2.0	0.58	EPA-8270C	ND	A01	1	
Hexachloroethane	ND	ND	mg/kg	2.0	0.64	EPA-8270C	ND	A01	1	
Indeno[1,2,3-cd]pyrene	ND	ND	mg/kg	2.0	0.26	EPA-8270C	ND	A01	1	
Isophorone	ND	ND	mg/kg	2.0	0.20	EPA-8270C	ND	A01	1	
2-Methylnaphthalene	ND	ND	mg/kg	2.0	0.16	EPA-8270C	ND	A01	1	
Naphthalene	ND	ND	mg/kg	2.0	0.17	EPA-8270C	ND	A01	1	
2-Naphthylamine	ND	ND	mg/kg	60	0.78	EPA-8270C	ND	A01	1	
2-Nitroaniline	ND	ND	mg/kg	2.0	0.54	EPA-8270C	ND	A01	1	
3-Nitroaniline	ND	ND	mg/kg	4.0	0.74	EPA-8270C	ND	A01	1	

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/28/2017 16:15
Project: Biosolids
Project Number: Solids Cleanup
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	1710067-08	Client Sample Name:	Composite Sample of 1-7, 4/13/2017 12:00:00AM, Jose C.						
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #
				PQL	MDL				
4-Nitroaniline	ND	ND	mg/kg	4.0	0.74	EPA-8270C	ND	A01	1
Nitrobenzene	ND	ND	mg/kg	2.0	0.20	EPA-8270C	ND	A01	1
N-Nitrosodimethylamine	ND	ND	mg/kg	2.0	1.5	EPA-8270C	ND	A01	1
N-Nitrosodi-N-propylamine	ND	ND	mg/kg	2.0	0.26	EPA-8270C	ND	A01	1
N-Nitrosodiphenylamine	ND	ND	mg/kg	2.0	0.36	EPA-8270C	ND	A01	1
Phenanthrene	ND	ND	mg/kg	2.0	0.68	EPA-8270C	ND	A01	1
Pyrene	ND	ND	mg/kg	2.0	0.54	EPA-8270C	ND	A01	1
1,2,4-Trichlorobenzene	ND	ND	mg/kg	2.0	0.32	EPA-8270C	ND	A01	1
4-Chloro-3-methylphenol	ND	ND	mg/kg	4.0	0.34	EPA-8270C	ND	A01	1
2-Chlorophenol	ND	ND	mg/kg	2.0	0.30	EPA-8270C	ND	A01	1
2,4-Dichlorophenol	ND	ND	mg/kg	2.0	0.42	EPA-8270C	ND	A01	1
2,4-Dimethylphenol	ND	ND	mg/kg	2.0	0.38	EPA-8270C	ND	A01	1
4,6-Dinitro-2-methylphenol	ND	ND	mg/kg	10	0.60	EPA-8270C	ND	A01	1
2,4-Dinitrophenol	ND	ND	mg/kg	10	3.6	EPA-8270C	ND	A01	1
2-Methylphenol	ND	ND	mg/kg	2.0	0.17	EPA-8270C	ND	A01	1
3- & 4-Methylphenol	2.6	2.2	mg/kg	4.0	0.68	EPA-8270C	ND	J,A01	1
2-Nitrophenol	ND	ND	mg/kg	2.0	0.50	EPA-8270C	ND	A01	1
4-Nitrophenol	ND	ND	mg/kg	4.0	0.68	EPA-8270C	ND	A01	1
Pentachlorophenol	ND	ND	mg/kg	4.0	0.62	EPA-8270C	ND	A01	1
Phenol	0.35	0.30	mg/kg	2.0	0.30	EPA-8270C	ND	J,A01	1
2,4,5-Trichlorophenol	ND	ND	mg/kg	4.0	0.34	EPA-8270C	ND	A01	1
2,4,6-Trichlorophenol	ND	ND	mg/kg	4.0	0.56	EPA-8270C	ND	A01	1
2-Fluorophenol (Surrogate)	62.0	62.0	%	20 - 130 (LCL - UCL)		EPA-8270C		A01	1
Phenol-d5 (Surrogate)	64.5	64.5	%	30 - 130 (LCL - UCL)		EPA-8270C		A01	1
Nitrobenzene-d5 (Surrogate)	66.5	66.5	%	30 - 130 (LCL - UCL)		EPA-8270C		A01	1
2-Fluorobiphenyl (Surrogate)	70.0	70.0	%	30 - 140 (LCL - UCL)		EPA-8270C		A01	1
2,4,6-Tribromophenol (Surrogate)	68.5	68.5	%	20 - 150 (LCL - UCL)		EPA-8270C		A01	1
p-Terphenyl-d14 (Surrogate)	84.0	84.0	%	30 - 150 (LCL - UCL)		EPA-8270C		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/18/17	04/27/17 02:21	MK1	MS-B2	20.134	B[D]1735



City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/28/2017 16:15
Project: Biosolids
Project Number: Solids Cleanup
Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1710067-08	Client Sample Name:	Composite Sample of 1-7, 4/13/2017 12:00:00AM, Jose C.						
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #
Moisture	0	16.2	%	0.05	0.05	Calc	ND		1
Organic Nitrogen	59000	49000	mg/kg	40	20	Calc	ND		2
Total Nitrogen	71000	59000	mg/kg	60	20	Calc	ND		2
pH	7.02	7.02	pH Units	0.05	0.05	EPA-9040		pHdil	3
pH Measurement Temperature	22.0	22.0	C	0.1	0.1	EPA-9040			3
Nitrate as N	23	20	mg/kg	2.0	0.52	EPA-300.0	ND	A07	4
Total Kjeldahl Nitrogen	71000	59000	mg/kg	10000	4000	EPA-351.2	ND	A07	5
Ammonia as N	12000	9900	mg/kg	2500	1200	EPA-350.1	ND	A07	6
Total Phosphorus	23000	20000	mg/kg	500	180	EPA-365.4	ND	A07	7
Solids	100	83.8	%	0.05	0.05	SM-2540G			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Calc	04/17/17	04/24/17 17:01	AMM	Calc	1	B[D]1444
2	Calc	04/17/17	04/27/17 21:01	AMM	Calc	1	B[D]1444
3	EPA-9040	04/20/17	04/20/17 13:45	DIW	PH10	1	B[D]1953
4	EPA-300.0	04/18/17	04/18/17 20:17	JSW	IC2	2	B[D]1648
5	EPA-351.2	04/24/17	04/27/17 16:24	JMH	SC-1	250	B[D]2176
6	EPA-350.1	04/20/17	04/26/17 09:47	JMH	SC-1	235.85	B[D]1853
7	EPA-365.4	04/24/17	04/27/17 14:32	JMH	SC-1	50	B[D]2180
8	SM-2540G	04/20/17	04/20/17 08:00	DRC	MANUAL	1	B[D]2116

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Modified WET Test (STLC)

BCL Sample ID: 1710067-08	Client Sample Name: Composite Sample of 1-7, 4/13/2017 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium		0.085	mg/L	0.20	0.070	EPA-7196	ND	J	1
Electrical Conductivity @ 25 C		7800	umhos/cm	1.0	1.0	EPA-120.1			2
Total Dissolved Solids @ 180 C		3800	mg/L	500	500	EPA-160.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/20/17	04/20/17 14:41	RCC	KONE-1	1	B[D2074
2	EPA-120.1	04/21/17	04/21/17 10:41	RML	MET-1	1	B[D2007
3	EPA-160.1	04/21/17	04/21/17 09:00	CAD	MANUAL	50	B[D2024



City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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WET Test (STLC)

BCL Sample ID: 1710067-08	Client Sample Name: Composite Sample of 1-7, 4/13/2017 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received		Method	MB Bias	Lab Quals	Run #
Chromium		3.7	mg/L	0.10	0.0092	EPA-6010B	ND		1
Copper		0.037	mg/L	0.10	0.012	EPA-6010B	0.012	J	1
Selenium		0.37	mg/L	0.20	0.11	EPA-6010B	0.14		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/28/17	04/28/17 15:05	JCC	PE-OP3	1	B[D2818

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Total Concentrations (TTLC)

BCL Sample ID:	1710067-08	Client Sample Name:	Composite Sample of 1-7, 4/13/2017 12:00:00AM, Jose C.						
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	5.4	4.5	mg/kg	1.0	0.40	EPA-6010B	ND		1
Cadmium	0.67	0.56	mg/kg	0.50	0.052	EPA-6010B	ND		1
Chromium	79	66	mg/kg	0.50	0.050	EPA-6010B	0.17		1
Copper	290	240	mg/kg	1.0	0.050	EPA-6010B	ND		1
Lead	7.2	6.0	mg/kg	2.5	0.28	EPA-6010B	ND		1
Mercury	1.6	1.3	mg/kg	0.16	0.019	EPA-7471A	ND		2
Molybdenum	4.9	4.1	mg/kg	2.5	0.050	EPA-6010B	ND		1
Nickel	15	12	mg/kg	0.50	0.15	EPA-6010B	ND		1
Selenium	19	16	mg/kg	1.0	0.98	EPA-6010B	ND		1
Zinc	630	530	mg/kg	2.5	0.087	EPA-6010B	0.25		1
Potassium	4000	3400	mg/kg	50	5.0	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/24/17	04/24/17 17:58	JCC	PE-OP3	0.990	B[D2147
2	EPA-7471A	04/19/17	04/20/17 09:35	MEV	CETAC2	0.992	B[D1773

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[D2037]						
Aldrin	B[D2037-BLK1	ND	mg/kg	0.00050	0.000055	
Dieldrin	B[D2037-BLK1	ND	mg/kg	0.00050	0.000070	
PCB-1016	B[D2037-BLK1	ND	mg/kg	0.010	0.0039	
PCB-1221	B[D2037-BLK1	ND	mg/kg	0.010	0.0072	
PCB-1232	B[D2037-BLK1	ND	mg/kg	0.010	0.0074	
PCB-1242	B[D2037-BLK1	ND	mg/kg	0.010	0.0042	
PCB-1248	B[D2037-BLK1	ND	mg/kg	0.010	0.0070	
PCB-1254	B[D2037-BLK1	ND	mg/kg	0.010	0.0032	
PCB-1260	B[D2037-BLK1	ND	mg/kg	0.010	0.0029	
PCB-1262	B[D2037-BLK1	ND	mg/kg	0.010	0.0074	
PCB-1268	B[D2037-BLK1	ND	mg/kg	0.010	0.0041	
Total PCB's (Summation)	B[D2037-BLK1	ND	mg/kg	0.010	0.0050	
TCMX (Surrogate)	B[D2037-BLK1	79.2	%	20 - 130 (LCL - UCL)		
Decachlorobiphenyl (Surrogate)	B[D2037-BLK1	80.7	%	40 - 130 (LCL - UCL)		

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B[D2037											
Aldrin	B[D2037-BS1	LCS	0.0046852	0.0050336	mg/kg	93.1		70	130		
Dieldrin	B[D2037-BS1	LCS	0.0043279	0.0050336	mg/kg	86.0		70	130		
TCMX (Surrogate)	B[D2037-BS1	LCS	0.0093581	0.010067	mg/kg	93.0		20	130		
Decachlorobiphenyl (Surrogate)	B[D2037-BS1	LCS	0.016665	0.020134	mg/kg	82.8		40	130		

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B[D2037		Used client sample: N								
Aldrin	MS	1705207-56	ND	0.0046505	0.0049834	mg/kg		93.3		50 - 140
	MSD	1705207-56	ND	0.0042564	0.0049505	mg/kg	8.8	86.0	30	50 - 140
Dieldrin	MS	1705207-56	ND	0.0044608	0.0049834	mg/kg		89.5		40 - 140
	MSD	1705207-56	ND	0.0041455	0.0049505	mg/kg	7.3	83.7	30	40 - 140
TCMX (Surrogate)	MS	1705207-56	ND	0.0089422	0.0099668	mg/kg		89.7		20 - 130
	MSD	1705207-56	ND	0.0087525	0.0099010	mg/kg	2.1	88.4		20 - 130
Decachlorobiphenyl (Surrogate)	MS	1705207-56	ND	0.016639	0.019934	mg/kg		83.5		40 - 130
	MSD	1705207-56	ND	0.015171	0.019802	mg/kg	9.2	76.6		40 - 130

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[D1735]						
Acenaphthene	B[D1735-BLK1	ND	mg/kg	0.10	0.0092	
Acenaphthylene	B[D1735-BLK1	ND	mg/kg	0.10	0.018	
Aldrin	B[D1735-BLK1	ND	mg/kg	0.10	0.016	
Aniline	B[D1735-BLK1	ND	mg/kg	0.20	0.016	
Anthracene	B[D1735-BLK1	ND	mg/kg	0.10	0.050	
Benzidine	B[D1735-BLK1	ND	mg/kg	3.0	0.058	
Benzo[a]anthracene	B[D1735-BLK1	ND	mg/kg	0.10	0.041	
Benzo[b]fluoranthene	B[D1735-BLK1	ND	mg/kg	0.10	0.0094	
Benzo[k]fluoranthene	B[D1735-BLK1	ND	mg/kg	0.10	0.017	
Benzo[a]pyrene	B[D1735-BLK1	ND	mg/kg	0.10	0.026	
Benzo[g,h,i]perylene	B[D1735-BLK1	ND	mg/kg	0.10	0.011	
Benzoic acid	B[D1735-BLK1	ND	mg/kg	0.50	0.057	
Benzyl alcohol	B[D1735-BLK1	ND	mg/kg	0.10	0.0073	
Benzyl butyl phthalate	B[D1735-BLK1	ND	mg/kg	0.10	0.033	
alpha-BHC	B[D1735-BLK1	ND	mg/kg	0.10	0.035	
beta-BHC	B[D1735-BLK1	ND	mg/kg	0.10	0.040	
delta-BHC	B[D1735-BLK1	ND	mg/kg	0.10	0.018	
gamma-BHC (Lindane)	B[D1735-BLK1	ND	mg/kg	0.10	0.025	
bis(2-Chloroethoxy)methane	B[D1735-BLK1	ND	mg/kg	0.10	0.045	
bis(2-Chloroethyl) ether	B[D1735-BLK1	ND	mg/kg	0.10	0.026	
bis(2-Chloroisopropyl)ether	B[D1735-BLK1	ND	mg/kg	0.10	0.015	
bis(2-Ethylhexyl)phthalate	B[D1735-BLK1	ND	mg/kg	0.20	0.032	
4-Bromophenyl phenyl ether	B[D1735-BLK1	ND	mg/kg	0.10	0.026	
4-Chloroaniline	B[D1735-BLK1	ND	mg/kg	0.10	0.015	
2-Chloronaphthalene	B[D1735-BLK1	ND	mg/kg	0.10	0.012	
4-Chlorophenyl phenyl ether	B[D1735-BLK1	ND	mg/kg	0.10	0.011	
Chrysene	B[D1735-BLK1	ND	mg/kg	0.10	0.016	
4,4'-DDD	B[D1735-BLK1	ND	mg/kg	0.10	0.032	
4,4'-DDE	B[D1735-BLK1	ND	mg/kg	0.10	0.033	
4,4'-DDT	B[D1735-BLK1	ND	mg/kg	0.10	0.052	
Dibenzo[a,h]anthracene	B[D1735-BLK1	ND	mg/kg	0.10	0.019	
Dibenzofuran	B[D1735-BLK1	ND	mg/kg	0.10	0.013	
1,2-Dichlorobenzene	B[D1735-BLK1	ND	mg/kg	0.10	0.0084	
1,3-Dichlorobenzene	B[D1735-BLK1	ND	mg/kg	0.10	0.012	

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/28/2017 16:15
Project: Biosolids
Project Number: Solids Cleanup
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[D1735						
1,4-Dichlorobenzene	B[D1735-BLK1	ND	mg/kg	0.10	0.018	
3,3-Dichlorobenzidine	B[D1735-BLK1	ND	mg/kg	0.20	0.024	
Dieldrin	B[D1735-BLK1	ND	mg/kg	0.10	0.031	
Diethyl phthalate	B[D1735-BLK1	ND	mg/kg	0.10	0.0073	
Dimethyl phthalate	B[D1735-BLK1	ND	mg/kg	0.10	0.0091	
Di-n-butyl phthalate	B[D1735-BLK1	ND	mg/kg	0.10	0.019	
2,4-Dinitrotoluene	B[D1735-BLK1	ND	mg/kg	0.10	0.030	
2,6-Dinitrotoluene	B[D1735-BLK1	ND	mg/kg	0.10	0.016	
Di-n-octyl phthalate	B[D1735-BLK1	ND	mg/kg	0.10	0.013	
1,2-Diphenylhydrazine	B[D1735-BLK1	ND	mg/kg	0.10	0.016	
Endosulfan I	B[D1735-BLK1	ND	mg/kg	0.20	0.062	
Endosulfan II	B[D1735-BLK1	ND	mg/kg	0.20	0.062	
Endosulfan sulfate	B[D1735-BLK1	ND	mg/kg	0.10	0.056	
Endrin	B[D1735-BLK1	ND	mg/kg	0.20	0.053	
Endrin aldehyde	B[D1735-BLK1	ND	mg/kg	0.50	0.044	
Fluoranthene	B[D1735-BLK1	ND	mg/kg	0.10	0.011	
Fluorene	B[D1735-BLK1	ND	mg/kg	0.10	0.013	
Heptachlor	B[D1735-BLK1	ND	mg/kg	0.10	0.024	
Heptachlor epoxide	B[D1735-BLK1	ND	mg/kg	0.10	0.065	
Hexachlorobenzene	B[D1735-BLK1	ND	mg/kg	0.10	0.012	
Hexachlorobutadiene	B[D1735-BLK1	ND	mg/kg	0.10	0.020	
Hexachlorocyclopentadiene	B[D1735-BLK1	ND	mg/kg	0.10	0.029	
Hexachloroethane	B[D1735-BLK1	ND	mg/kg	0.10	0.032	
Indeno[1,2,3-cd]pyrene	B[D1735-BLK1	ND	mg/kg	0.10	0.013	
Isophorone	B[D1735-BLK1	ND	mg/kg	0.10	0.0099	
2-Methylnaphthalene	B[D1735-BLK1	ND	mg/kg	0.10	0.0082	
Naphthalene	B[D1735-BLK1	ND	mg/kg	0.10	0.0085	
2-Naphthylamine	B[D1735-BLK1	ND	mg/kg	3.0	0.039	
2-Nitroaniline	B[D1735-BLK1	ND	mg/kg	0.10	0.027	
3-Nitroaniline	B[D1735-BLK1	ND	mg/kg	0.20	0.037	
4-Nitroaniline	B[D1735-BLK1	ND	mg/kg	0.20	0.037	
Nitrobenzene	B[D1735-BLK1	ND	mg/kg	0.10	0.0098	
N-Nitrosodimethylamine	B[D1735-BLK1	ND	mg/kg	0.10	0.077	
N-Nitrosodi-N-propylamine	B[D1735-BLK1	ND	mg/kg	0.10	0.013	

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[D1735						
N-Nitrosodiphenylamine	B[D1735-BLK1	ND	mg/kg	0.10	0.018	
Phenanthrene	B[D1735-BLK1	ND	mg/kg	0.10	0.034	
Pyrene	B[D1735-BLK1	ND	mg/kg	0.10	0.027	
1,2,4-Trichlorobenzene	B[D1735-BLK1	ND	mg/kg	0.10	0.016	
4-Chloro-3-methylphenol	B[D1735-BLK1	ND	mg/kg	0.20	0.017	
2-Chlorophenol	B[D1735-BLK1	ND	mg/kg	0.10	0.015	
2,4-Dichlorophenol	B[D1735-BLK1	ND	mg/kg	0.10	0.021	
2,4-Dimethylphenol	B[D1735-BLK1	ND	mg/kg	0.10	0.019	
4,6-Dinitro-2-methylphenol	B[D1735-BLK1	ND	mg/kg	0.50	0.030	
2,4-Dinitrophenol	B[D1735-BLK1	ND	mg/kg	0.50	0.18	
2-Methylphenol	B[D1735-BLK1	ND	mg/kg	0.10	0.0086	
3- & 4-Methylphenol	B[D1735-BLK1	ND	mg/kg	0.20	0.034	
2-Nitrophenol	B[D1735-BLK1	ND	mg/kg	0.10	0.025	
4-Nitrophenol	B[D1735-BLK1	ND	mg/kg	0.20	0.034	
Pentachlorophenol	B[D1735-BLK1	ND	mg/kg	0.20	0.031	
Phenol	B[D1735-BLK1	ND	mg/kg	0.10	0.015	
2,4,5-Trichlorophenol	B[D1735-BLK1	ND	mg/kg	0.20	0.017	
2,4,6-Trichlorophenol	B[D1735-BLK1	ND	mg/kg	0.20	0.028	
2-Fluorophenol (Surrogate)	B[D1735-BLK1	104	%	20 - 130 (LCL - UCL)		
Phenol-d5 (Surrogate)	B[D1735-BLK1	107	%	30 - 130 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	B[D1735-BLK1	97.2	%	30 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	B[D1735-BLK1	130	%	30 - 140 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	B[D1735-BLK1	95.7	%	20 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	B[D1735-BLK1	97.5	%	30 - 150 (LCL - UCL)		

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab RPD	Quals
								Percent Recovery	RPD		
QC Batch ID: B[D1735											
Acenaphthene	B[D1735-BS1	LCS	1.2399	1.6722	mg/kg	74.1		50	130		
1,4-Dichlorobenzene	B[D1735-BS1	LCS	1.4440	1.6722	mg/kg	86.3		50	130		
2,4-Dinitrotoluene	B[D1735-BS1	LCS	1.3119	1.6722	mg/kg	78.5		50	130		
Hexachlorobenzene	B[D1735-BS1	LCS	1.2883	1.3378	mg/kg	96.3		40	130		
Hexachlorobutadiene	B[D1735-BS1	LCS	1.1079	1.6722	mg/kg	66.3		50	130		
Hexachloroethane	B[D1735-BS1	LCS	1.3016	1.6722	mg/kg	77.8		50	130		
Nitrobenzene	B[D1735-BS1	LCS	1.4894	1.6722	mg/kg	89.1		50	130		
N-Nitrosodi-N-propylamine	B[D1735-BS1	LCS	1.5374	1.6722	mg/kg	91.9		40	120		
Pyrene	B[D1735-BS1	LCS	1.3421	1.6722	mg/kg	80.3		40	150		
1,2,4-Trichlorobenzene	B[D1735-BS1	LCS	1.2315	1.6722	mg/kg	73.6		50	120		
4-Chloro-3-methylphenol	B[D1735-BS1	LCS	1.3181	1.6722	mg/kg	78.8		50	130		
2-Chlorophenol	B[D1735-BS1	LCS	1.5228	1.6722	mg/kg	91.1		50	130		
2-Methylphenol	B[D1735-BS1	LCS	1.3398	1.6722	mg/kg	80.1		50	130		
3- & 4-Methylphenol	B[D1735-BS1	LCS	2.6508	3.3445	mg/kg	79.3		50	130		
4-Nitrophenol	B[D1735-BS1	LCS	1.4083	1.6722	mg/kg	84.2		30	130		
Pentachlorophenol	B[D1735-BS1	LCS	0.64915	1.3378	mg/kg	48.5		20	130		
Phenol	B[D1735-BS1	LCS	1.4657	1.6722	mg/kg	87.6		40	120		
2,4,6-Trichlorophenol	B[D1735-BS1	LCS	1.2159	1.6722	mg/kg	72.7		50	130		
2-Fluorophenol (Surrogate)	B[D1735-BS1	LCS	1.1105	1.3378	mg/kg	83.0		20	130		
Phenol-d5 (Surrogate)	B[D1735-BS1	LCS	1.1747	1.3378	mg/kg	87.8		30	130		
Nitrobenzene-d5 (Surrogate)	B[D1735-BS1	LCS	1.0550	1.3378	mg/kg	78.9		30	130		
2-Fluorobiphenyl (Surrogate)	B[D1735-BS1	LCS	1.3969	1.3378	mg/kg	104		30	140		
2,4,6-Tribromophenol (Surrogate)	B[D1735-BS1	LCS	0.95962	1.3378	mg/kg	71.7		20	150		
p-Terphenyl-d14 (Surrogate)	B[D1735-BS1	LCS	0.57519	0.66890	mg/kg	86.0		30	150		

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/28/2017 16:15
Project: Biosolids
Project Number: Solids Cleanup
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B[D1735		Used client sample: N								
Acenaphthene	MS	1710013-07	ND	1.1827	1.6835	mg/kg		70.3		30 - 140
	MSD	1710013-07	ND	1.1864	1.6447	mg/kg	0.3	72.1	30	30 - 140
1,4-Dichlorobenzene	MS	1710013-07	ND	1.3867	1.6835	mg/kg		82.4		50 - 130
	MSD	1710013-07	ND	1.3779	1.6447	mg/kg	0.6	83.8	30	50 - 130
2,4-Dinitrotoluene	MS	1710013-07	ND	1.3023	1.6835	mg/kg		77.4		50 - 130
	MSD	1710013-07	ND	1.2619	1.6447	mg/kg	3.1	76.7	30	50 - 130
Hexachlorobenzene	MS	1710013-07	ND	1.3285	1.3468	mg/kg		98.6		50 - 130
	MSD	1710013-07	ND	1.2779	1.3158	mg/kg	3.9	97.1	30	50 - 130
Hexachlorobutadiene	MS	1710013-07	ND	1.1048	1.6835	mg/kg		65.6		50 - 130
	MSD	1710013-07	ND	1.0460	1.6447	mg/kg	5.5	63.6	30	50 - 130
Hexachloroethane	MS	1710013-07	ND	1.2335	1.6835	mg/kg		73.3		50 - 130
	MSD	1710013-07	ND	1.2189	1.6447	mg/kg	1.2	74.1	30	50 - 130
Nitrobenzene	MS	1710013-07	ND	1.4659	1.6835	mg/kg		87.1		30 - 120
	MSD	1710013-07	ND	1.4707	1.6447	mg/kg	0.3	89.4	30	30 - 120
N-Nitrosodi-N-propylamine	MS	1710013-07	ND	1.5173	1.6835	mg/kg		90.1		20 - 130
	MSD	1710013-07	ND	1.4635	1.6447	mg/kg	3.6	89.0	30	20 - 130
Pyrene	MS	1710013-07	ND	1.2981	1.6835	mg/kg		77.1		40 - 140
	MSD	1710013-07	ND	1.2535	1.6447	mg/kg	3.5	76.2	30	40 - 140
1,2,4-Trichlorobenzene	MS	1710013-07	ND	1.2444	1.6835	mg/kg		73.9		50 - 130
	MSD	1710013-07	ND	1.2079	1.6447	mg/kg	3.0	73.4	30	50 - 130
4-Chloro-3-methylphenol	MS	1710013-07	ND	1.3307	1.6835	mg/kg		79.0		50 - 130
	MSD	1710013-07	ND	1.3668	1.6447	mg/kg	2.7	83.1	30	50 - 130
2-Chlorophenol	MS	1710013-07	ND	1.5302	1.6835	mg/kg		90.9		50 - 130
	MSD	1710013-07	ND	1.5244	1.6447	mg/kg	0.4	92.7	30	50 - 130
2-Methylphenol	MS	1710013-07	ND	1.3618	1.6835	mg/kg		80.9		50 - 130
	MSD	1710013-07	ND	1.3420	1.6447	mg/kg	1.5	81.6	30	50 - 130
3- & 4-Methylphenol	MS	1710013-07	ND	2.6340	3.3670	mg/kg		78.2		50 - 130
	MSD	1710013-07	ND	2.5854	3.2895	mg/kg	1.9	78.6	30	50 - 130
4-Nitrophenol	MS	1710013-07	ND	1.6860	1.6835	mg/kg		100		30 - 140
	MSD	1710013-07	ND	1.7097	1.6447	mg/kg	1.4	104	30	30 - 140
Pentachlorophenol	MS	1710013-07	ND	0.98392	1.3468	mg/kg		73.1		30 - 130
	MSD	1710013-07	ND	0.93464	1.3158	mg/kg	5.1	71.0	30	30 - 130
Phenol	MS	1710013-07	ND	1.4452	1.6835	mg/kg		85.8		40 - 150
	MSD	1710013-07	ND	1.4065	1.6447	mg/kg	2.7	85.5	30	40 - 150
2,4,6-Trichlorophenol	MS	1710013-07	ND	1.2955	1.6835	mg/kg		77.0		50 - 130
	MSD	1710013-07	ND	1.3228	1.6447	mg/kg	2.1	80.4	30	50 - 130

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/28/2017 16:15
Project: Biosolids
Project Number: Solids Cleanup
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B[D1735		Used client sample: N								
2-Fluorophenol (Surrogate)	MS	1710013-07	ND	1.1294	1.3468	mg/kg		83.9	20 - 130	
	MSD	1710013-07	ND	1.1349	1.3158	mg/kg	0.5	86.3	20 - 130	
Phenol-d5 (Surrogate)	MS	1710013-07	ND	1.1704	1.3468	mg/kg		86.9	30 - 130	
	MSD	1710013-07	ND	1.1339	1.3158	mg/kg	3.2	86.2	30 - 130	
Nitrobenzene-d5 (Surrogate)	MS	1710013-07	ND	1.0266	1.3468	mg/kg		76.2	30 - 130	
	MSD	1710013-07	ND	1.0476	1.3158	mg/kg	2.0	79.6	30 - 130	
2-Fluorobiphenyl (Surrogate)	MS	1710013-07	ND	1.3330	1.3468	mg/kg		99.0	30 - 140	
	MSD	1710013-07	ND	1.3368	1.3158	mg/kg	0.3	102	30 - 140	
2,4,6-Tribromophenol (Surrogate)	MS	1710013-07	ND	1.0903	1.3468	mg/kg		81.0	20 - 150	
	MSD	1710013-07	ND	1.0685	1.3158	mg/kg	2.0	81.2	20 - 150	
p-Terphenyl-d14 (Surrogate)	MS	1710013-07	ND	0.55402	0.67340	mg/kg		82.3	30 - 150	
	MSD	1710013-07	ND	0.54450	0.65789	mg/kg	1.7	82.8	30 - 150	

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Chemical Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[D1444]						
Total Nitrogen	B[D1444-BLK1	ND	mg/kg	60	20	
Organic Nitrogen	B[D1444-BLK1	ND	mg/kg	40	20	
Moisture	B[D1444-BLK1	ND	%	0.05	0.05	
QC Batch ID: B[D1648]						
Nitrate as N	B[D1648-BLK1	ND	mg/kg	1.0	0.26	
QC Batch ID: B[D1853]						
Ammonia as N	B[D1853-BLK1	ND	mg/kg	10	5.0	
QC Batch ID: B[D2176]						
Total Kjeldahl Nitrogen	B[D2176-BLK1	ND	mg/kg	40	16	
QC Batch ID: B[D2180]						
Total Phosphorus	B[D2180-BLK1	ND	mg/kg	10	3.7	

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Chemical Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B[D1648]										
Nitrate as N	B[D1648-BS1]	LCS	4.9810	5.0000	mg/kg	99.6		90 - 110		
QC Batch ID: B[D1853]										
Ammonia as N	B[D1853-BS1]	LCS	96.858	94.340	mg/kg	103		80 - 120		
QC Batch ID: B[D1953]										
pH	B[D1953-BS1]	LCS	6.9830	7.0000	pH Units	99.8		95 - 105		
QC Batch ID: B[D2176]										
Total Kjeldahl Nitrogen	B[D2176-BS1]	LCS	421.22	400.00	mg/kg	105		90 - 110		
QC Batch ID: B[D2180]										
Total Phosphorus	B[D2180-BS1]	LCS	201.44	200.00	mg/kg	101		85 - 115		

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Chemical Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B[D1648]		Used client sample: N								
Nitrate as N	DUP	1710013-07	1.3800	1.2400		mg/kg	10.7		20	
	MS	1710013-07	1.3800	51.919	50.505	mg/kg		100		80 - 120
	MSD	1710013-07	1.3800	51.848	50.505	mg/kg	0.1	99.9	20	80 - 120
QC Batch ID: B[D1853]		Used client sample: Y - Description: Composite Sample of 1-7, 04/13/2017 00:00								
Ammonia as N	DUP	1710067-08	9947.6	9895.4		mg/kg	0.5		20	
	MS	1710067-08	9947.6	9835.8	94.340	mg/kg		-119		80 - 120 A03
	MSD	1710067-08	9947.6	9302.8	92.593	mg/kg	5.6	-696	20	80 - 120 A03
QC Batch ID: B[D1953]		Used client sample: N								
pH	DUP	1710247-01	7.8170	7.8120		pH Units	0.1		20	
QC Batch ID: B[D2116]		Used client sample: N								
Solids	DUP	1710334-01	82.260	82.490		%	0.3		20	
QC Batch ID: B[D2176]		Used client sample: Y - Description: Composite Sample of 1-7, 04/13/2017 00:00								
Total Kjeldahl Nitrogen	DUP	1710067-08	59413	60326		mg/kg	1.5		20	
	MS	1710067-08	59413	63026	400.00	mg/kg		903		90 - 110 A03
	MSD	1710067-08	59413	62589	400.00	mg/kg	0.7	794	20	90 - 110 A03
QC Batch ID: B[D2180]		Used client sample: Y - Description: Composite Sample of 1-7, 04/13/2017 00:00								
Total Phosphorus	DUP	1710067-08	19522	19478		mg/kg	0.2		20	
	MS	1710067-08	19522	18514	200.00	mg/kg		-504		80 - 120 A03
	MSD	1710067-08	19522	18614	200.00	mg/kg	0.5	-454	20	80 - 120 A03

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Modified WET Test (STLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[D2024]						
Total Dissolved Solids @ 180 C	B[D2024-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: B[D2074]						
Hexavalent Chromium	B[D2074-BLK1	ND	mg/L	0.20	0.070	

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Modified WET Test (STLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B[D2007]										
Electrical Conductivity @ 25 C	B[D2007-BS1]	LCS	311.90	303.00	umhos/cm	103		90 - 110		
QC Batch ID: B[D2024]										
Total Dissolved Solids @ 180 C	B[D2024-BS1]	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: B[D2074]										
Hexavalent Chromium	B[D2074-BS1]	LCS	5.0065	5.0000	mg/L	100		85 - 115		

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Modified WET Test (STLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B[D2007] Used client sample: Y - Description: Composite Sample of 1-7, 04/13/2017 00:00										
Electrical Conductivity @ 25 C	DUP	1710067-08	7813.7	7654.5		umhos/cm	2.1		20	
QC Batch ID: B[D2024] Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	1710013-01	62.670	60.003		mg/L	4.3		20	
QC Batch ID: B[D2074] Used client sample: Y - Description: Composite Sample of 1-7, 04/13/2017 00:00										
Hexavalent Chromium	DUP	1710067-08	0.085200	0.086400		mg/L	1.4		20	J
	MS	1710067-08	0.085200	5.0881	5.2632	mg/L		95.1		85 - 115
	MSD	1710067-08	0.085200	5.1220	5.2632	mg/L	0.7	95.7	20	85 - 115

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/28/2017 16:15
Project: Biosolids
Project Number: Solids Cleanup
Project Manager: Victorio Tostado

WET Test (STLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[D2818						
Chromium	B[D2818-BLK1	ND	mg/L	0.10	0.0092	
Copper	B[D2818-BLK1	0.012247	mg/L	0.10	0.012	J
Selenium	B[D2818-BLK1	0.14358	mg/L	0.20	0.11	J

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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WET Test (STLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B[D2818											
Chromium	B[D2818-BS1	LCS	20.788	20.000	mg/L	104		85 - 115			
Copper	B[D2818-BS1	LCS	19.428	20.000	mg/L	97.1		85 - 115			
Selenium	B[D2818-BS1	LCS	2.2713	2.0000	mg/L	114		85 - 115			

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WET Test (STLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B[D2818		Used client sample: N								
Chromium	DUP	1711132-01	5.0314	5.0861		mg/L	1.1		20	
	MS	1711132-01	5.0314	25.872	20.408	mg/L		102		75 - 125
	MSD	1711132-01	5.0314	26.884	20.408	mg/L	3.8	107	20	75 - 125
Copper	DUP	1711132-01	0.019585	0.014889		mg/L	27.2		20	J,A02
	MS	1711132-01	0.019585	19.965	20.408	mg/L		97.7		75 - 125
	MSD	1711132-01	0.019585	20.342	20.408	mg/L	1.9	99.6	20	75 - 125
Selenium	DUP	1711132-01	0.21288	0.25211		mg/L	16.9		20	
	MS	1711132-01	0.21288	2.3841	2.0408	mg/L		106		75 - 125
	MSD	1711132-01	0.21288	2.4619	2.0408	mg/L	3.2	110	20	75 - 125

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City of Patterson P.O. Box 667 Patterson, CA 95363	Reported: 04/28/2017 16:15 Project: Biosolids Project Number: Solids Cleanup Project Manager: Victorio Tostado
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Total Concentrations (TTLIC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[D1773]						
Mercury	B[D1773-BLK1	ND	mg/kg	0.16	0.019	
QC Batch ID: B[D2147]						
Arsenic	B[D2147-BLK1	ND	mg/kg	1.0	0.40	
Cadmium	B[D2147-BLK1	ND	mg/kg	0.50	0.052	
Chromium	B[D2147-BLK1	0.17558	mg/kg	0.50	0.050	J
Copper	B[D2147-BLK1	ND	mg/kg	1.0	0.050	
Lead	B[D2147-BLK1	ND	mg/kg	2.5	0.28	
Molybdenum	B[D2147-BLK1	ND	mg/kg	2.5	0.050	
Nickel	B[D2147-BLK1	ND	mg/kg	0.50	0.15	
Selenium	B[D2147-BLK1	ND	mg/kg	1.0	0.98	
Zinc	B[D2147-BLK1	0.25170	mg/kg	2.5	0.087	J
Potassium	B[D2147-BLK1	ND	mg/kg	50	5.0	

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Total Concentrations (TTLIC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B[D1773]										
Mercury	B[D1773-BS1]	LCS	0.82512	0.80000	mg/kg	103		80 - 120		
QC Batch ID: B[D2147]										
Arsenic	B[D2147-BS1]	LCS	8.6236	10.000	mg/kg	86.2		75 - 125		
Cadmium	B[D2147-BS1]	LCS	8.8835	10.000	mg/kg	88.8		75 - 125		
Chromium	B[D2147-BS1]	LCS	99.348	100.00	mg/kg	99.3		75 - 125		
Copper	B[D2147-BS1]	LCS	85.976	100.00	mg/kg	86.0		75 - 125		
Lead	B[D2147-BS1]	LCS	93.338	100.00	mg/kg	93.3		75 - 125		
Molybdenum	B[D2147-BS1]	LCS	95.692	100.00	mg/kg	95.7		75 - 125		
Nickel	B[D2147-BS1]	LCS	95.121	100.00	mg/kg	95.1		75 - 125		
Selenium	B[D2147-BS1]	LCS	8.5638	10.000	mg/kg	85.6		75 - 125		
Zinc	B[D2147-BS1]	LCS	88.151	100.00	mg/kg	88.2		75 - 125		
Potassium	B[D2147-BS1]	LCS	438.53	500.00	mg/kg	87.7		75 - 125		

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Total Concentrations (TTLIC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B[D1773]		Used client sample: N									
Mercury	DUP	1710013-01	ND	ND		mg/kg				20	
	MS	1710013-01	ND	0.79523	0.76923	mg/kg		103		80 - 120	
	MSD	1710013-01	ND	0.80062	0.76923	mg/kg	0.7	104	20	80 - 120	
QC Batch ID: B[D2147]		Used client sample: N									
Arsenic	DUP	1710532-07	2.8942	2.7397		mg/kg	5.5			20	
	MS	1710532-07	2.8942	10.057	10.000	mg/kg		71.6		75 - 125	Q03
	MSD	1710532-07	2.8942	10.968	10.000	mg/kg	8.7	80.7	20	75 - 125	
Cadmium	DUP	1710532-07	ND	0.058426		mg/kg				20	J
	MS	1710532-07	ND	7.6093	10.000	mg/kg		76.1		75 - 125	
	MSD	1710532-07	ND	7.7800	10.000	mg/kg	2.2	77.8	20	75 - 125	
Chromium	DUP	1710532-07	38.511	39.303		mg/kg	2.0			20	
	MS	1710532-07	38.511	115.83	100.00	mg/kg		77.3		75 - 125	
	MSD	1710532-07	38.511	121.37	100.00	mg/kg	4.7	82.9	20	75 - 125	
Copper	DUP	1710532-07	20.276	20.277		mg/kg	0.0			20	
	MS	1710532-07	20.276	94.825	100.00	mg/kg		74.5		75 - 125	Q03
	MSD	1710532-07	20.276	98.881	100.00	mg/kg	4.2	78.6	20	75 - 125	
Lead	DUP	1710532-07	28.035	21.106		mg/kg	28.2			20	Q01
	MS	1710532-07	28.035	91.544	100.00	mg/kg		63.5		75 - 125	Q03
	MSD	1710532-07	28.035	97.357	100.00	mg/kg	6.2	69.3	20	75 - 125	Q03
Molybdenum	DUP	1710532-07	ND	0.070014		mg/kg				20	J
	MS	1710532-07	ND	70.945	100.00	mg/kg		70.9		75 - 125	Q03
	MSD	1710532-07	ND	74.355	100.00	mg/kg	4.7	74.4	20	75 - 125	Q03
Nickel	DUP	1710532-07	28.696	28.836		mg/kg	0.5			20	
	MS	1710532-07	28.696	102.54	100.00	mg/kg		73.8		75 - 125	Q03
	MSD	1710532-07	28.696	106.51	100.00	mg/kg	3.8	77.8	20	75 - 125	
Selenium	DUP	1710532-07	ND	1.7700		mg/kg				20	
	MS	1710532-07	ND	8.3910	10.000	mg/kg		83.9		75 - 125	
	MSD	1710532-07	ND	8.7772	10.000	mg/kg	4.5	87.8	20	75 - 125	
Zinc	DUP	1710532-07	35.754	36.447		mg/kg	1.9			20	
	MS	1710532-07	35.754	107.95	100.00	mg/kg		72.2		75 - 125	Q03
	MSD	1710532-07	35.754	113.46	100.00	mg/kg	5.0	77.7	20	75 - 125	
Potassium	DUP	1710532-07	2095.5	2085.9		mg/kg	0.5			20	
	MS	1710532-07	2095.5	2493.3	500.00	mg/kg		79.6		75 - 125	
	MSD	1710532-07	2095.5	2563.7	500.00	mg/kg	2.8	93.7	20	75 - 125	

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Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- MPN Most Probable Number
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration is more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A10 Detection and quantitation limits were raised due to matrix interference.
- Q01 Sample precision is not within the control limits.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.
- pHdil pH result reported on a 1:5 dilution of sample